



CLAIMS

1. A method of cleaning and or hydrostatic testing a pipeline between two subsea manifolds, one of said manifolds having a subsea pig launcher/receiver with a pig and the other having a subsea pig receiver comprising:

using a submersible vehicle (SV) to operate one or more pumps on a fill and test package to force seawater behind said pig and move said pig from the pig launcher/receiver to the pig receiver, and

using said SV to pump more water into said pipeline to a test pressure and maintaining said pressure to assure that there are no leaks in said pipeline.

2. A method according to claim 1 wherein the test pressure is read on a gauge mounted on a panel on said pig launcher/receiver.

3. A method according to claim 2 wherein said fill and test package is carried by said SV.

4. A method for cleaning and hydrostatic testing a subsea pipeline between two manifolds, one of said manifolds having a subsea pig launcher/receiver with a pig and the other having a pig receiver comprising:

using a SV, operating at least one pump on a fill and test package to force seawater behind said pig and move the pig from the pig launcher/receiver to the pig receiver; and

using a SV, pumping more seawater into said pipeline to a test pressure and maintaining said pressure to assure that there are no leaks in said pipeline.

5. A method according to claim 4 wherein said SV has a robotic arm for connecting and disconnecting said pump to said pipeline.

6. A method for the hydrostatic testing of a pipeline before its ends are connected wherein both ends are on the seafloor comprising:

using a submersible vehicle (SV) to operate at least one pump on a fill and test package to raise the internal pressure of the pipeline sufficiently for hydrostatic testing.

7. A method for the hydrostatic testing of a pipeline on the seafloor comprising:

using a submersible vehicle (SV) to operate one or more pumps on a fill and test package to raise the internal pressure of the pipeline sufficiently for hydrostatic testing.

8. A method for the hydrostatic testing of a water filled pipeline on the seafloor comprising:

using a submersible vehicle (SV) to operate at least one high pressure pump on a fill and test package to pump water into said water filled pipeline to raise the internal pressure of the pipeline sufficiently for hydrostatic testing.

9. A method for the hydrostatic testing of a pipeline between two subsea manifolds comprising:

using a submersible vehicle (SV) to operate one or more pumps on a fill and test package to pump seawater from near the seafloor into and raise the internal pressure of the pipeline sufficiently for hydrostatic testing.